

Registration No. :

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Total number of printed pages – 2

B. Tech
BECS 2207

Third Semester Regular Examination – 2014

OBJECT ORIENTED PROGRAMMING

BRANCH(S) : CSE, IT

QUESTION CODE : H 389

Full Marks – 70

Time : 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

1. Answer the following questions :

2 × 10

- What is this pointer ? Why does compiler insert it implicitly?
- What is the use of static member function in OOP ?
- Explain nested class with an example.
- Under which condition static memory allocations become unsuitable ?
- What is the syntax of new operator for allocating memory for an array ?
- What do you mean by pure virtual function ? When it is required ?
- Differentiate between text file and binary file.
- What are smart pointer and how they are created ?
- List the keywords used for exception handling.
- What do you mean by iterators ? Give an example.

2. (a) Discuss the advantage and disadvantages of different access specifiers.

5

(b) What is inline function ? Explain its importance with an example.

5

P.T.O.

3. (a) With an example explain how polymorphism is achieved at compile time and runtime ? 5
- (b) What is class ? How does it accomplish data hiding ? Explain with an example. 5
4. Write a C++ program to print a table of values of the function $X = k^{-P}$. 10
5. (a) What are the issues associated with handling errors in a constructor ? 5
- (b) How does a un subscripted name of a two dimensional array interpreted in C++ ? 5
6. (a) What do you mean by object slicing ? Explain with an example. 5
- (b) Differentiate between virtual function and pure virtual function with example. 5
7. (a) What is exception ? Discuss different methods to handle exception. 5
- (b) What are references in C++ ? How the references are used as function parameters ? 5
8. Write notes on : 5 × 2
- (a) Copy constructor
- (b) Late binding.

